

Pillard Windcheck™

Ultrasonic anemometer for tunnels



Wind velocity measurement unit ensuring optimized ventilation and safety

- Easy to install
- Flexible solution
- Easy to maintain
- Long-lasting design made from stainless steel 316L

Pillard Windcheck™ is a wind velocity measuring unit ensuring optimal ventilation and safety

ULTIMATE TECHNOLOGY WITH A LIMITED INVESTMENT

Pillard Windcheck™ integrates ultrasound technology into a single unit to measure wind velocity and direction.

The ultrasound technology is based on sound propagation through the air ; two transducers are alternately transmitters and receivers. The outward and return transit times induced by the air flow are measured.

Using the time difference, the internal calculator measures the wind speed and direction compared to its reference axis. The measured value allows automatic activation of ventilation when required.

ADAPTABLE SOLUTION

Pillard Windcheck™ is adaptable to difficult weather conditions including sub-zero temperatures: heaters are fitted in the satellite and can activate to avoid freezing of the measuring unit thereby ensuring an accurate measure.



General characteristics

Operating temperature	-40 to +70°C
Précision	24VDC -15% / +10%
Power consumption	3W without heating / 24W with heating
Analogue output signal	4 -20mA / Fault < 4mA
Digital output	Yes
Protection	IP65
Dimensions	329 x 179 x 291mm (housing + sensor)
Weight	2.5 Kg
Material	Stainless steel (316L / X2CrNiMo17-12-02 1.4404)

Sensor

Velocity range	-20 to +20m/s
Velocity resolution	0.1m/s
Velocity accuracy	0.5%
Wind direction	Bi-directional
Temperature range	-40 to +60°C
Temperature resolution	0.1°C
Temperature accuracy	±1°C

Console

Display	LCD
Controls	4 push-buttons
Connection	Cable 4/20mA

Certifications and standards

Compliance	EN 61000-6-1, EN 61000-6-3, EN 60947-1
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SAFETY AND PROTECTION

- Guaranteed comfort and safety
- Protects users with smoke extraction in the case of fire
- Ensures toxic gas concentrations meet regulatory standards
- Ensures good visibility for rescue operations and fire-fighting
- Avoids an oxygen supply to the fire

EASY INSTALLATION

Pillard Windcheck™ simplifies setting and installation thanks to:

- A single unit integrating a temperature sensor and an electronic circuit board
- A remote console, managing communication with the equipment

EASY MAINTENANCE

Pillard's Windcheck™ requires just simple cleaning twice a year with a soft tissue to ensure anemometer efficiency.